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TRANSMITTAL LETTER
(General - Patent Pending)

Docket No.
007.00048 (R-5472 B)

In Re Application Of: **Davies**

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|--------------------------------------|-------------------------------------|----------------------------|-------------------------------------|-------------------------------|------------------|
| Application No. 10/817,443 | Filing Date April 5, 2004 | Examiner Unknown | Customer No. Not Assigned | Group Art Unit 1626 | Confirmation No. |
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Title:
METAL CATALYSTS AND METHODS FOR MAKING AND USING SAME

COMMISSIONER FOR PATENTS:

Transmitted herewith is:

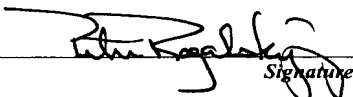
Information Disclosure Statement (2 pages) (in duplicate), PTO-1449 (3 pages) (in duplicate), and copies of zero references
Supplemental Information Disclosure Statement (2 pages) (in duplicate), PTO-1449 (1 page) (in duplicate), and copies of zero references
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in the above identified application.

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Dated: **September 22, 2004**



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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] o.

 (Date) **9-22-04**

Signature of Person Mailing Correspondence

Peter Rogalskyj

Typed or Printed Name of Person Mailing Correspondence

CC:



007.00048 (R-5472 B)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | | |
|-------------|-----------------------------|---|-------------------|
| Applicant: | Davies |) | |
| | |) | |
| Serial No.: | 10/817,443 |) | |
| | |) | Examiner: Unknown |
| Filed: | April 5, 2004 |) | |
| | |) | Art Unit: 1626 |
| For: | METAL CATALYSTS AND METHODS |) | |
| | FOR MAKING AND USING SAME |) | |
| | |) | |

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.97-1.98, applicant hereby brings to the attention of the United States Patent and Trademark Office ("PTO") the references listed on the attached PTO-1449 form.

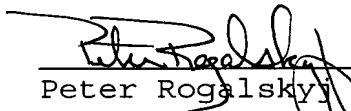
Two of the references listed on the attached PTO-1449 form (i.e., U.S. Patent No. 6,025,502 to Winkler et al. and WO 96/28250) were previously submitted to or cited by the PTO in prior U.S. Patent Application Serial No. 10/113,747, from which the present application claims priority under 35 U.S.C. § 120. Accordingly, copies of these references are not being provided herewith.

- 2 -

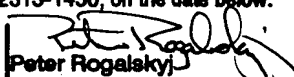
The remaining two references listed on the attached PTO-1449 form (i.e., U.S. Patent No. 6,410,746 to Davies and U.S. Patent No. 6,762,304 to Davies) are U.S. patent documents, and, therefore, copies of these documents need not be submitted.

Applicant believes that no fee is necessary in connection with the filing of this statement. In the event that a fee is necessary in connection with the filing of this statement, the Director is hereby authorized to charge any such fee to Deposit Account No. 50-0772. A duplicate copy of this paper is enclosed.

Dated: September 22, 2004


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| 9-22-04 |  |
| Date | Peter Rogalskyj |



007.00048 (R-5472 B)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Davies)
Serial No.: 10/817,443)
Filed: April 5, 2004) Examiner: Unknown
For: METAL CATALYSTS AND METHODS) Art Unit: 1626
FOR MAKING AND USING SAME)

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Each of the references listed on the attached PTO-1449 form was previously submitted to or cited by the PTO in prior U.S. Patent Application Serial No. 09/521,375 and/or in prior U.S. Patent Application Serial No. 10/113,747, from which prior applications the present application claims priority under 35 U.S.C. § 120. Accordingly, copies of these references are not being provided herewith.

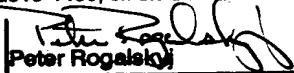
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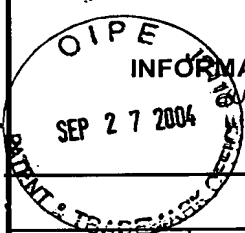
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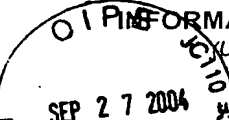

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| 9-22-04 Date |  Peter Rogalskyj |

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|  <p>INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)</p> | | | | ATTY DOCKET NO. 007.00048 (R-5472 B) | | APPLICATION NO. 10/817,443 | | |
| | | | | APPLICANT(S) Davies | | | | |
| | | | | FILING DATE April 5, 2004 | | GROUP ART UNIT 1626 | | |
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| U.S. PATENT DOCUMENTS | | | | | | | | |
| *EXAMINER INITIAL | 1 | DOCUMENT NUMBER 6,025,502 | DATE 02/15/2000 | NAME Winkler et al. | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE 03/19/1999 | |
| | 2 | 6,410,746 | 06/25/2002 | Davies | | | | |
| | 3 | 6,762,304 | 07/13/2004 | Davies | | | | |
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| U.S. PATENT APPLICATION PUBLICATIONS | | | | | | | | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
| | 4 | WO 96/28250 | 09/19/1996 | PCT | | | YES | NO |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | |
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| <div style="text-align: center;">  <p>INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)</p> </div> | ATTY DOCKET NO. 007.00048 (R-5472 B) | APPLICATION NO. 10/817,443 |
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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | SERIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---------------------|--------|-----------------|------------|--------------------|-------|----------|-------------------------------|
| | 1 | 2,507,631 | 5/16/1950 | Hartmann et al. | | | |
| | 2 | 2,957,880 | 10/25/1960 | Rometsch et al. | | | |
| | 3 | 4,133,881 | 01/09/1979 | Cale, Jr. et al. | | | |
| | 4 | 4,238,488 | 12/09/1980 | Howe et al. | | | |
| | 5 | 4,866,048 | 09/12/1989 | Calverley et al. | | | |
| | 6 | 5,036,053 | 07/30/1991 | Himmelsbach et al. | | | |
| | 7 | 5,296,595 | 03/22/1994 | Doyle | | | |
| | 8 | 5,401,732 | 03/28/1995 | Calverley et al. | | | |
| | 9 | 5,665,890 | 09/09/1997 | Jacobsen et al. | | | |
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FOREIGN PATENT DOCUMENTS

| REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
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| | | | | | | YES | NO |
| 10 | 2 260 903 A | 05/05/1993 | GB | | | | |
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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| 11 | Deutsch et al., "Synthesis and Pharmacology of Potential Cocaine Antagonists. 2. Structure - Activity Relationship Studies of Aromatic Ring-Substituted Methylphenidate Analogs," <u>J. Med. Chem.</u> , 39:1201-1209 (1996) |
| 12 | Doyle et al., "Chiral Catalysts for Enantioselective Intermolecular Cyclopropanation Reactions With Methyl Phenylidazoacetate. Origin of the Solvent Effect in Reactions Catalyzed by Homochiral Dirhodium(II) Prolinates," <u>Tetrahedron Letters</u> , 37(24):4129-4132 (1996) |

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|----------------------|-----------------|---|
| 13 | | Davies et al., "Asymmetric Intermolecular Carbenoid C-H Insertions Catalyzed by Rhodium(II) (S)-N-(p-Dodecylphenyl)sulfonylproline," <u>J. Am. Chem. Soc.</u> , 119:9075-9076 (1997) |
| 14 | | Davies, "Asymmetric Synthesis Using Rhodium-Stabilized Vinylcarbenoid Intermediates," <u>Aldrichimica Acta</u> , 30(4):107-114 (1997) |
| 15 | | Davies et al., "Enantioselective Synthesis of Functionalized Tropanes by Rhodium (II) Carboxylate-Catalyzed Decomposition of Vinyl diazomethanes in the Presence of Pyrroles," <u>J. Org. Chem.</u> , 62:1095-1105 (1997) |
| 16 | | Davies et al., "Synthesis and Evaluation of a Novel Dirhodium Tetraproline Catalyst Containing Bridging Proline," <u>Tetrahedron Letters</u> , 38(24):4203-4206 (1997) |
| 17 | | Axten et al., "A Stereoselective Synthesis of dl-threo-Methylphenidate: Preparation and Biological Evaluation of Novel Analogues," <u>J. Org. Chem.</u> , 63:9628-9629 (1998) |
| 18 | | Davies et al., "Effect of Carbenoid Structure on the Reactivity of Rhodium Stabilized Carbenoids," <u>Tetrahedron Letters</u> , 39:4417-4420 (1998) |
| 19 | | Davies, "Rhodium-Stabilized Vinylcarbenoid Intermediates in Organic Synthesis," <u>Current Organic Chemistry</u> , 2:463-488 (1998) |
| 20 | | Stinson, "Counting on Chiral Drugs," <u>Chemical & Engineering News</u> , pp. 83ff (September 21, 1998) |
| 21 | | Thai et al., "Asymmetric Synthesis and Pharmacology of Methylphenidate and Its Para-Substituted Derivatives," <u>J. Med. Chem.</u> , 41:591-601 (1998) |
| 22 | | Axten et al., "Enantioselective Synthesis of D-threo-Methylphenidate," <u>J. Am. Chem Soc.</u> , 121(27):6511-6512 (1999) |
| 23 | | Davies et al., "Catalytic Asymmetric Synthesis of Diarylacetates and 4,4-Diarylbutanoates. A Formal Asymmetric Synthesis of (+)-Sertraline," <u>Organic Letters</u> , 1(2):233-236 (1999) |
| 24 | | Davies et al., "Catalytic Asymmetric Synthesis of Syn-Aldol Products from Intermolecular C-H Insertions Between Allyl Silyl Ethers and Methyl Aryldiazoacetates," <u>Organic Letters</u> , 1(3):383-385 (1999) |

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|----------------------|-----------------|--|
| 25 | | Davies, "Dirhodium Tetra(N-arylsulfonylprolinates) as Chiral Catalysts For Asymmetric Transformations of Vinyl- and Aryldiazoacetates," <u>Eur. J. Org. Chem.</u> , 2459-2469 (1999) |
| 26 | | Davies et al., "Highly Regio-, Diastereo-, and Enantioselective C-H Insertions of Methyl Aryldiazoacetates into Cyclic N-Boc-Protected Amines. Asymmetric Synthesis of Novel C2-Symmetric Amines and threo-Methylphenidate," <u>J. Am. Chem. Soc.</u> , 121(27):6509-6510 (1999) |
| 27 | | Davies et al., "Novel Dirhodium Tetraproline Catalysts Containing Bridging Proline Ligands for Asymmetric Carbenoid Reactions," <u>Tetrahedron Letters</u> , 40:5287-5290 (1999) |
| 28 | | Deutsch et al., "Synthesis and Pharmacology of Site-Specific Cocaine Abuse Treatment Agents: 2-(Aminomethyl)-3-phenylbicyclo[2.2.2]- and -[2.2.1]alkane Dopamine Uptake Inhibitors," <u>J. Med. Chem.</u> , 42:882-895 (1999) |
| 29 | | Deutsch et al., "Synthesis and Pharmacology of Site-Specific Cocaine Abuse Treatment Agents: The Role of the Phenyl Group in Highly Modified Methylphenidate Analogs as Dopamine Uptake Inhibitors," <u>Med. Chem. Res.</u> , 9(4):213-222 (1999) |
| 30 | | Matsumura et al., "A Convenient Method for Synthesis of Enantiomerically Enriched Methylphenidate from N-Methoxycarbonylpiperidine," <u>Organic Letters</u> , 1(2):175-178 (1999) |
| 31 | | Prashad et al., "Enantioselective Synthesis of (2S,2'R)-erythro-methylphenidate," <u>Tetrahedron: Asymmetry</u> , 10:3479-3482 (1999) |
| 32 | | Prashad et al., "The First Enantioselective Synthesis of (2R,2'R)-threo-(+)-Methylphenidate Hydrochloride," <u>J. Org. Chem.</u> , 64:1750-1753 (1999) |
| 33 | | Davies et al., "Stereoselectivity of Methyl Aryldiazoacetate Cyclopropanations of 1,1-Diarylethylene. Asymmetric Synthesis of a Cyclopropyl Analogue of Tamoxifen," <u>Organic Letters</u> , 2(6):823-826 (2000) |
| 34 | | Davies et al., "Catalytic Asymmetric Synthesis of Diarylacetates and 4,4-Diarylbutanoates. A Formal Asymmetric Synthesis of (+)-Sertraline," <u>Organic Letters</u> , 2(3):417 (2000) |
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